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S-E-C-R-E-T

COUNTRY Poland REPORT 50X1-HUM

SUBJECT 1. WSK Wroclaw Aircraft Plant in Wroclaw-Psie Pole
 2. Miscellaneous Polish Plants Supplying Parts for WSK Wroclaw Production

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report on the WSK Wroclaw aircraft plant in Wroclaw-Psie Pole and on miscellaneous Polish plants supplying parts for WSK Wroclaw production. Information on WSK Wroclaw includes organization of the plant, leading personnel, and layout sketches with legends. The other plants mentioned in the report are mainly WSK plants.

50X1-HUM

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ENCLOSURE ATTACHED
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4 APR 1958

8 APR 1958

10 APR 1958

1. Approximately 4000 workers were employed here. It was basically engaged on assembly and production of jet engines. To begin with up to 1952 the work was only on assembly of Russian jet engines from the components supplied from USSR. Later production was started on a contract from the Russians, and finally in ?? work was started on a purely Polish jet engine. When completed, this proved to be considerably better than the Russian prototype on which it was an improvement. It is generally believed that Polish G3 types were based on MIG 15, C-/MIG 17, and CD is better even than that.

50X1-HUM

2. Although each of the WSK Works specialised in a certain part of production there was a certain amount of sub-contracting from one WSK Unit to another as well as to a number of Works outside the WSK ring. Thus WSK MIELEO did three mechanical type jobs for WSK RZESZOW, while this did for WSK MIELEO (salifowanie) of cog wheels for an oil pump.

50X1-HUM

3. There was a certain inclination to keep the production of aircraft within the WSK family, though orders for some types of components had to be placed from time to time outside. In 1955 it was decided at a general meeting of production managers to found a forge at the RZESZOW WSK. All WSK Works then were asked to submit to WSK RZESZOW their requirements for forged products for several years ahead in duplicate. Subsequently the Forge Workshops were organised but because of a slackening off in production the project was not realised, fully.

III. WARSAW/OKCZIE (Production of Aircraft Frames)

50X1-HUM

1. From 1953 the works produced aircraft CSS 13 and Junak a.e., both of which were handed to it from aircraft works in MIELEO. Junak is used for training pilots for jet aircraft. WSK WARSAW/OKCZIE had a standing order from RZESZOW WSK for the mechanical finishing of 6 items

IV. WSK SWIDNICK near LUBLIN

50X1-HUM

1. The works employed approx. 2,500 people. Its main line of production were helicopters - all except engines. They also specialised in production of coloured metal forged components (edkowki). The Works produced for WSK RZESZOW parts for PN 2 TK oil pump and several coloured metal forged items (edkowek kolorowych) (See sketch 5 attached)

V. WSK GORZYCE near SANDOMIERZ (but in TARNOBRZEG District officially)

1. These workshops specialised in coloured metal mouldings.

VI. WSK DĘBICA.....



50X1-HUM

14. Pumps

- 14 -

WSK WROCLAW assembled two types of oil pumps for jet aircraft. The technical data of these pumps is not known. The pumps were type PN TK 2 for production G - 3 (MIG-15) which in 1955 was slowed down to between 12 and 8 pumps a month and PNTK 3 for production C. (MIG-17) which were produced at a rate of between 30 and 35 per month. Some of the new pumps were kept back for replacements on aircraft in commission, but these amounted to approximately 5 to 8 per month.

15. For pay-out of WSK WROCLAW see Sketch II.

50X1-HUM

- 15 -

VI. WSK DĘBICA

1. The works specialised in the production of "normalia" -?? for all WSK. Several sets of fittings were despatched from WSK WROCŁAW to this factory.

VII. WSK KRAKOW

1. This is a newly created WSK enterprise located in Ul. Szczepańska.
2. The factory produces metal containers for the aircraft industry. It does not appear to be a large works.

VIII. WSK PEŁCOZNICA near WALECKIOWO in WROCŁAW Voivodeship

1. Undercarriages for jet aircraft were produced here.

IX. WSK KALISZ

1. These works do not work on jet aircraft production. Piston engines for Jurek and partly engines for helicopters were produced here.

X. WSK WARSZAWA - UL. PODKAMIONSKA

1. Navigation instruments for aircraft were produced here. Main part of production went to MIELEK and WARSZAWA/OKCIE. Amoreid components of oil pumps were bought in part abroad and then fitted with additional items.

XI. M - 5 Works in PIŁSZEK

1. The works produced mainly for the Army. Work on the production of prototype of jet helicopter was first started here. Later this work was taken over by MIELEK, RUMIAZON and WROCŁAW WSK enterprises.

XII. M - 5 Works, also called ARCHIMEDES Works in WROCŁAW

1. These works produced all types of electric motors for the Army, for export and for home consumption. (REMOVED)

XIII. A - 5 Works in WARSZAWA

1. The works were located in Ul. Grochowska 308 - 310.

2. Chief of production was JANKOWSKI fm (not to be confused with JANKOWSKI fm also chief of production in M - 7 Works in TARNOW).

XIV. STARACHOWICE Works

1. STARACHOWICE Works produced for WSK WROCŁAW rotors (wirniki) for pumps PW 2 TX and PW 3 TX, as well as for other forgings of a less complicated nature. The head of the forge in STARACHOWICE was Engineer ZAPALA.

XV. WOLRIM Works - Silesia

1. At WOLRIM Works in Silesia rubberized cloth heads for fuel tanks were produced for WROCŁAW WSK.

XVI. KRAKOWSKIE ZAKŁADY METALOWE

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50X1-HUM

- 16 -

XVI. KRAKOWSKIE ZAKLADY METALOWE (KRAKOW Metal Works)

1. These are large works situated in Ul. Grzegoryskie. The works produce machinery. For WSK WROCLAW these works produced castings (edowy) for viscous pumps which were for civilian use.

XVII. ZAKLADY M - 7 in TARNOW (Works M - 7 in TARNOW)

These are large works - about the same as those of WROCLAW WSK. These works produced blocks for parts received from BIELSK and for mounting electric motors. Chief of Production Dept was Eng. JANKOWSKI.

XVIII. HUTA STALOWA WOLA (STALOWA WOLA Iron and Steel Works)

1. The works produced for WSK WROCLAW special quality steels.
2. At these works there was Military Control Dept where there were officers from armoured units. (Last seen December 1955).

XIX. SIDAPERIT RUBBER WORKS (ZAKLADY GIMONE SIDAPERIT) in KRAKOW

1. The works were situated in Ul. Krasinskiego 20. It employed approx. 500 people. The work of the factory was divided into production for civilian consumption and for special production. For special production the factory produced (unzesalki) for all WSK and Military enterprises.

2. For WSK this factory produced between 180 and 200 different items. From here WSK WROCLAW also received rubber sheets and ready mixed rubber compounds for their own production in cases of emergency.

3. In 1955 the factory had received a military control unit. From WROCLAW WSK three copies of specifications of all products made by this factory for them were sent to the Military Control Unit. This was so that the products could be checked before they were sent to WSK WROCLAW rather than after they arrived there.

4. The factory also produced (unzesalki) sealing washers reinforced with fibre.

5. These works were on WSK circuit (For lay-out see sketch attached) ^{III}

XX. WARSAW METAL ORGS named after NOLOTKO

1. The works were located near the Main POWARSKI cemetery. The works must have produced things for the Army as there was a military control point. The officers at the point were red brimmed hats.

2. For WSK WROCLAW these works manufactured parts for the meters for bicycles

XXI. MILNIA 'USTRON' in USTRON GIELSKYSKI (USTRON Forge)

1. The Forge works employ approx. 400 people. The works consist of Production workshop, Workshop containing tempering dept " " " presses.

2. The forge produced forgings for all WSK works as well as for meter works in LUBLIN, BIRAN/WARSAW and PAPAG AG. For WSK in WROCLAW the forge produced forgings from special type steels $HC - 2$ and $HC - 3$ and $HP4 \pi$ - (

3. Head of Technical control was Eng. NIEMIEC from

4. For details of components produced see sketch IV attached,

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50X1-HUM

XXII. WIELKIE KRALE - There were located two works M - 8 and A - 8.

1. A - 8 Works were located in Ul. Partyzana. The works produced some sort of communication equipment - probably radio and telephone equipment. Attached to Works was a Control Unit (Feststandseinsatz) of the Air Force.

2. For the WSK WROCLAW these works were to produce annually 600 units of each type of equipment described above. The equipment was for jet aircraft. It is not known, however, how exactly it fits in.

- (i) A small metal box, measuring 5 x 4 x 4 cm enclosed in a metal container. There was a plug socket at one end and screws to which wires could be attached at the other.
- (ii) A bakelite container approximately 5cm in diameter.

3. M - 8 Works produced all types of electric motors. These were for military purposes, for export and for civilian consumption inside the country. There was a Military Central Commission attached to the Works.

4. For WSK WROCLAW the Works produced annually 400 electric motors which were approximately 23 $\frac{1}{2}$ cm long.

XXIII. DEBA ROZALIN Metal Works

1. DEBA ROZALIN metal works were working mainly for the military but the nature of the production is not known. The works were formed in 1956. They were planning to produce small motors for bicycles for civilian consumption.

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Sketch III - SIMPERIT RUBBER WORKS (see para 'IX')

Laid out as follows: The Works were located in Ul. Rzeszowska 20.

1. Administrative building housing management, military reps office, telephone exchange.
2. Main store
3. Rolling of rubber sheets (vulcania)
4. Preparation of mixtures from powders and of "maas".
5. a. Despatch dept (biuro skyrty)
b. Canteen
c. Chief engineer's office
6. Civilian production section
7. Vulcanisation of civilian production
8. Special production, membranes, sealing washers
9. Special production
10. Despatch dept for non-special production
11. Store for special production goods
12. Boiler room for entire works
13. Pastry guards, search rooms
14. Pass office and guard house for gate keeper.

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- 18 -

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Sketch IV - Components produced by KUZNETS 'USTRON' (see para XXL)

TRAILER POMPY OLEJOWEJ (..... for Oil Pump)

1. This component for oil pump, production [redacted] was produced for RSK 'ROOLAW' by USTRON Perga. The component was made of -2 which was most frequently used steel of special quality. It was a heat resisting chromium nickel steel. There were HK-1, HK-2, HK-3 and HK-4. -1 was the hardest of the four types and the most brittle. Other types of steel used was steel HAU.7 out of which were made three-way leads for pumps.

50X1-HUM

2. Component [redacted] was first hammered into shape as shown in sketch above then it was placed in a form and pressed under temperature 300 degrees centigrade. After that it was trimmed and annealed at 800-1200° C. Tempering was done in oil. The component was tested hardness (required hardness was 6) and its metal structure carefully examined. Component was also tested chemically.

50X1-HUM

3. Out of every group of 100 ingots some 40% were rejects when the forgings were examined prior to annealing and tempering. The engineers seldom got more than 1 finished components out of 100 forgings that passed the final test. The component tended to crack in a place indicated by a line in (5) of attached sketch.

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29 October, 1957

POLANDECONOMIC

ASK WROCŁAW & other Works with
which it co-operated in production

I. WPK WROCŁAW - PRIM POLA (MIEDZIOWA)

1. The Works are located in Ul. Bierutowska in the suburb of Prus Pola situated approx. 10 km NE of the centre of WROCŁAW. Access from WROCŁAW tram 6 or 8 along Ul. Stalina (now renamed) to Baj Zalinicki Square, then by bus to Prus Pola. There is no MO check point situated near the Prus Pola Square. In Ul. Bierutowska on the right hand side coming from WROCŁAW are situated side by side two industrial enterprises, the first coming from WROCŁAW is ZAKŁADY METALOWE Z - 8 (Metal Works Z - 8), and the second WPK WROCŁAW (See sketch 1 attached).

2. Metal Works Z-8 produce ammunition for jet a.e. The ammunition from here is sent only to MIELEC ASK and to experimental centres.

3. Administration

Director in Chief -

GŁÓWNY NADZIĘK

50X1-HUM

Director of Admin-
istrative matters -

CHŁUDY Józef,

Director of technical-
matters?Eng. GZEL (with title of Deputy Dir. of
Technical matters)4. Departments in the Works

Montage Ostatcowy (Final assembly section)

50X1-HUM

TR Section - Mechanical Finishing Workshop

Tu Section - Mechanical Section

Instruments Section I - chill moulds, patterns, forms, dies.

Instruments Section II - Instruments for technical control. Here made very precise forms which when placed over an assembled component gave a check that it corresponded to specification as far as dimensions are concerned. Here were also produced cutters for grinding machines, graduated (micrometer) drills of very fine quality, cutters for milling machines etc., both for specific and general purposes.

/Grinding section -

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Grinding Section - finishing work, grinding

TPR Section - Here forgings were turned into semi-manufactures, these were then finished in other departments or sent out of the works, altogether to be finished in other works. Forgings were as a rule received from out of works.

Special Mechanical Section - The section was divided into two parts. In part one work was done on recovery and repair of parts of equipment that have been damaged in process of production, but not beyond repair. In part two were received parts of individual items of equipment or parts of an aggregate that needed adjustment or repairs and which were too complicated for local engineers to tackle. In this section experts with long experience were working and they received very good remunerations and good treatment.

Galvanisation - Chromium plating, nickel plating, silver coating, oxidising, cadmium treatment. This section also had an emergency rubber workshop which produced all type of rubber products for emergency occasions.

Chemical Laboratory - All materials received from outside were tested here. The test was a random sample test.

Testing Section - The section had equipment for testing all equipment at different temperatures. This section works only on three shifts.

Despatch Section - From here finished products are sent out.

Technical Control Section-The section employs approx. 250 people most of whom are technicians with long experience. There are few experienced skilled workers employed on testing simpler matters. There are also about 20 highly qualified engineers. A special examination must be passed before one can be accepted for work in this section.

TT Section - Dial Technologichny (Technological Sect) Here technical details, calculations etc are worked out for each component. Section has its own duplicating & archives section

DK Section - Dial Konstruktchny (designing section) Here are prepared and checked all constructional drawings.

Chief Engineers Section - Care of all machinery and installations.

Dial Gidromekhanicheskaya Dvysaytora - Main Production or Order Section. Task of this section to regulate production, give priorities, put in rush orders for goods to bridge bottlenecks.

/Supplies Department.....

50X1-HUM

- 3 -

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Supplies Department - Here were ordered all raw materials from firms in or out of Poland.

Administrative Depts

Book-keeping

Cost Accounting

Accounting with other organisations

Pay Section

Personnel Section

Teletypewriter - Telephone and telegraph section. This dept also administered telephone communications on private circuit. On this circuit all WSK could be obtained without any trouble. The circuit was called WOZ. It is not known whether the line was scrambled.

Security Section - This section administered Industrial Security guards, fire brigades. In the past the section was run by UB appointed officers but since GOMULKA came to power it comes under the jurisdiction of the Chief Director.

Secret Office - (Konsularja Tajna) and Radio centre.

Section for outside production - In accordance with the regulations, providing that each WSK should produce something for civilian consumption, WSK WROCLAW was producing 12-14,000 meters for bicycles, and pumps (viseuse - wiskosze).

Welding & heavy stamping section

Cooperation Section - The function of this section was to conduct dealings with other works in Poland with regard to taking in orders for partial production and handing out of parts for the purpose of further manufacture.

Head of Section - KOZLOWSKI Aleksander Franciszek.

Deputy Head of Section - DIBICKI Franciszek.

50X1-HUM

Sub-section for steel forgings - PROKOP firm
 " " coloured parts - KOBYLINSKI Tadeusz

Plastic parts section - OSZMIAN Tadeusz

Other sub-sections - Electric Meters- KOSOWSKI firm

- Additional production - PRUCHNICKI Kazimierz
 sub-section & Complaints Section

Chairman of Workers' Council - Former secretary of the Party at the Works RZECZKOWSKI firm

50X1-HUM

One of the best experts in the works was KAZIMIERZ Jozef.

15. Centrals in WSK WROCLAW.....

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5. Controls

Each component constructed or assembled in the Works had a production sheet which was stamped when production process was finished. The workers had a small square stamp 

The civilian technical control stamp was round 

And the military control stamp was triangular 

or round with letters KW engraved in it. 

6. Production

In WSK WROCLAW release equipment for automatic ejection seats were also made. It is not known where the seats themselves were produced. The ejection seat was produced on a license from USSR. Production also included part of the mechanism for switching the operation of retractable undercarriage from hydraulics to compressed air, which was for emergency occasions only. The air was allowed into the mechanism by winding up (unscrewing) a handle.

7. Labour

In WSK WROCLAW approximately 3000 people worked. The work was in two shifts, including Sundays. The assembly dept often worked on three shifts.

8. General

WSK WROCLAW did not produce any components for guided missiles. As far as is known no such missiles were produced in Poland. Nor was there anything done for radar. No equipment with isotopes was used in WSK WROCLAW.

(a)

(b) WSK WROCLAW had dealings with the following Metal Works:

- (i) MUTA BATORY in CHORZOW (formerly KROLEWSKA). Materials in accordance with Soviet specification were ordered here; also two forgings were ordered: one was a part for a piston head (tlen busterowski) and the other was a forging for a cog wheel in the automatic pilot.
- (ii) MUTA RAILDON UL. Zelesna, KATOWICE. Heat resisting materials were ordered here - chromium nickel compound from which forgings were prepared here - specifications 623003/004 for oil pump. This pump was machined in WROCLAW, grinding work done in KZERZOW, assembled in WROCLAW and fitted into engine in KZERZOW and engine then mounted into aircraft in MIELCZ. "zaerki" valves for pumps were also ordered here. They were made from special metal dust baked in ovens. Also cutters (high speed) for lathes and milling machines. Up to about 1955 "zaerki" were received from USSR.
- (iii) MUTA SWIDNICKA in ZAWADZIE near KATOWICE. From here the works ordered three forgings for engine production and a crankshaft for bicycle engine produced in the Works.

- 2 -





9. Way to Startek II, Lar-geet or way Psie Pole - WROCLAW;

Up to Raj Zelinska Square by bus nr 6, 8 or 11 which goes further. From there by bus to Psie Pole to the very gates of the WSK WROCLAW Works.

1. Main production building. This is a four-storey building with a small garret, built in shape as shown on sketch. It is of red brick. Length approx 200m; width on the left side (looking from the road) approx. 50m; on the right 60m. Thickness of wall 3½ bricks. Partitions inside concrete. In the basement of this building are stored spare parts for machinery, tools and ball bearings.
2. Brick building, partly reinforced concrete. On the ground floor is located despatch dept and the stores of finished materials. Here are also located packing rooms. On the first floor are located testing rooms for all armature.
3. Partly destroyed hangar building - at present not in use.
4. Garage for cars and workshop for repair of cars.
5. Stores room for oil, alcohol. Underground is located a tank for liquis fuels.
6. Concrete and brick store house. Inside divided into two parts. In one is store room for all goods received from outside, such as finished and semi-finished parts, castings and forgings etc. The other part contains all the materials required for production and some for cutting materials. On the first floor; over the first part are located stores of writing materials and protective clothing. Over the second half store room for forgings, moulds and partly finished parts received from import. Patterns, dies etc necessary for production, or their duplicates. There is a railway branch line leading to these stores.
7. Tempering workshop. Although it is located on the area of Metal Works, it is used both by the WSK and by Metal Works 2-8. This a concrete building approx. 45m long and 20m wide.
8. Works canteen.
9. Administrative building two-storey, contains canteen. There is a small top storey built on top of it where telephone exchange for the management and auxiliary sections is located. Building is red brick.
10. Villa type building in which Works Party Committee office and library are located.
11. Two-storey building of white brick. On the ground floor, on the side of the main gate is located Industrial Guards quarters and in the other part the fire brigade. On the upper floor there are located some offices. Here is also located section of supply of materials for workers and social welfare office.
12. Gate
13. Main entrance and gate for vehicles. On the left hand side is located building where passes are issued.
14. Outside of the Works perimeter. Works medical centre. On upper floor there is a small hospital.
15. Empty building, formerly living accommodation. In front of the main gate there is a square where a bus arrives from WROCLAW and this is the terminus of this line. Works are surrounded by a tall concrete fence, except on the side adjoining Metal Works, where it has a wire fence.

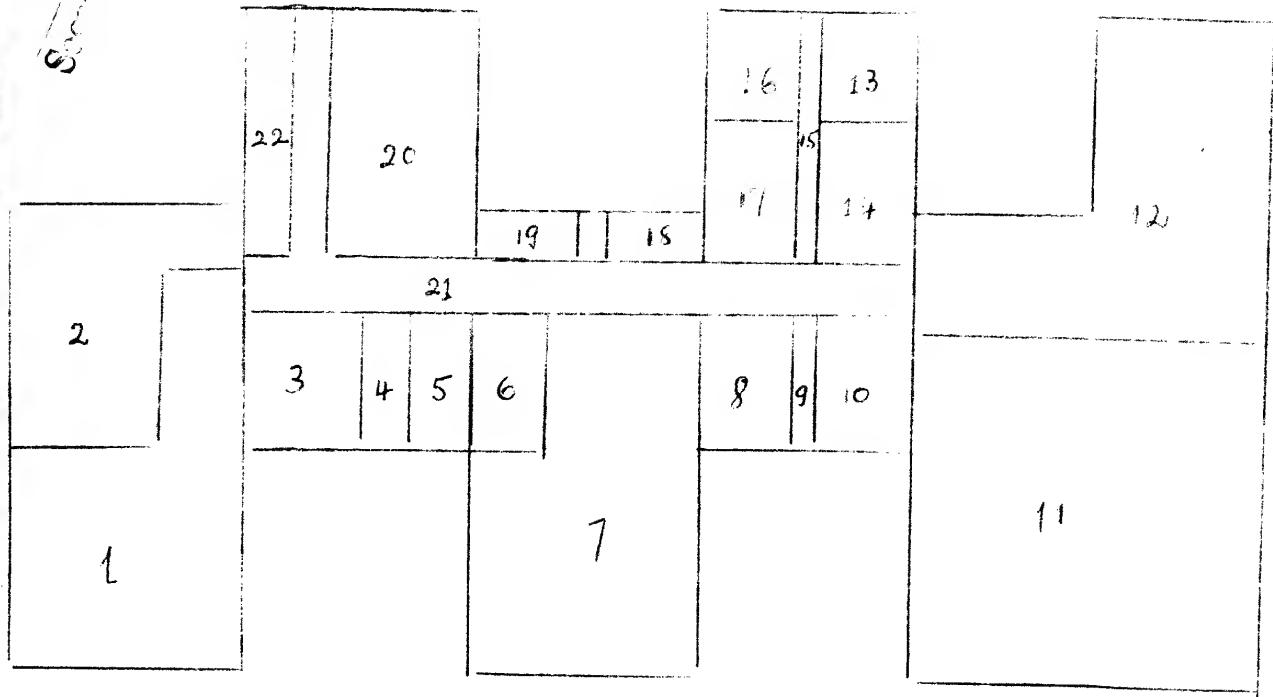


10. Key to Sketch IIa - Ground Floor, Main building WSK WROCLAW

1. Presses
2. Welding shops
3. Offices
4. Stairs
5. Office
6. Office
7. Not in use beginning 1955/56.
8. Small store for liquid fuels
9. Passage
10. Rubber section
11. This part was boarded off and no one except the director and appointed persons had access to it. There was no production here.
12. This part belongs to the Metal Works.
13. Galvanising baths
14. Small store room and technical control section
15. Galvanisation room
16. Galvanisation baths
17. Polishing (polerowanie) and lead coating
18. Here bicycle meters are prepared for assembly (debermanie silnikow rowerowych)
19. Chief mechanic's office
20. Chemical laboratory for analysis of materials used
21. Corridor
22. Technical control laboratory

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11. Key to Skarbek IIb - DSA WROCLAW Main building 1st Floor

1. Mechanical section, machining lathes, milling machines, turret lathes, plating machine.
2. Tool room, from where tools are taken for special jobs.
3. Stair case
4. Section offices
5. Not made use of
6. Chief engineers office
7. Production manager's office (dymowyter)
8. Telephone exchange, managers telephone system
9. Staircase
10. Classified documents office
11. Heavy lathes - the section belongs to tools section.
Dies, matrices etc produced here.
12. Corridor
13. Mechanical section, lathes, turner lathes.
14. Cooperation section - in charge of coordination of part production with other factories.
15. Technical documentation archives
16. Technologists and designers offices
17. Passage
18. Draughtsman's tables
19. Chief technolog
20. Design copy room
21. Designing section

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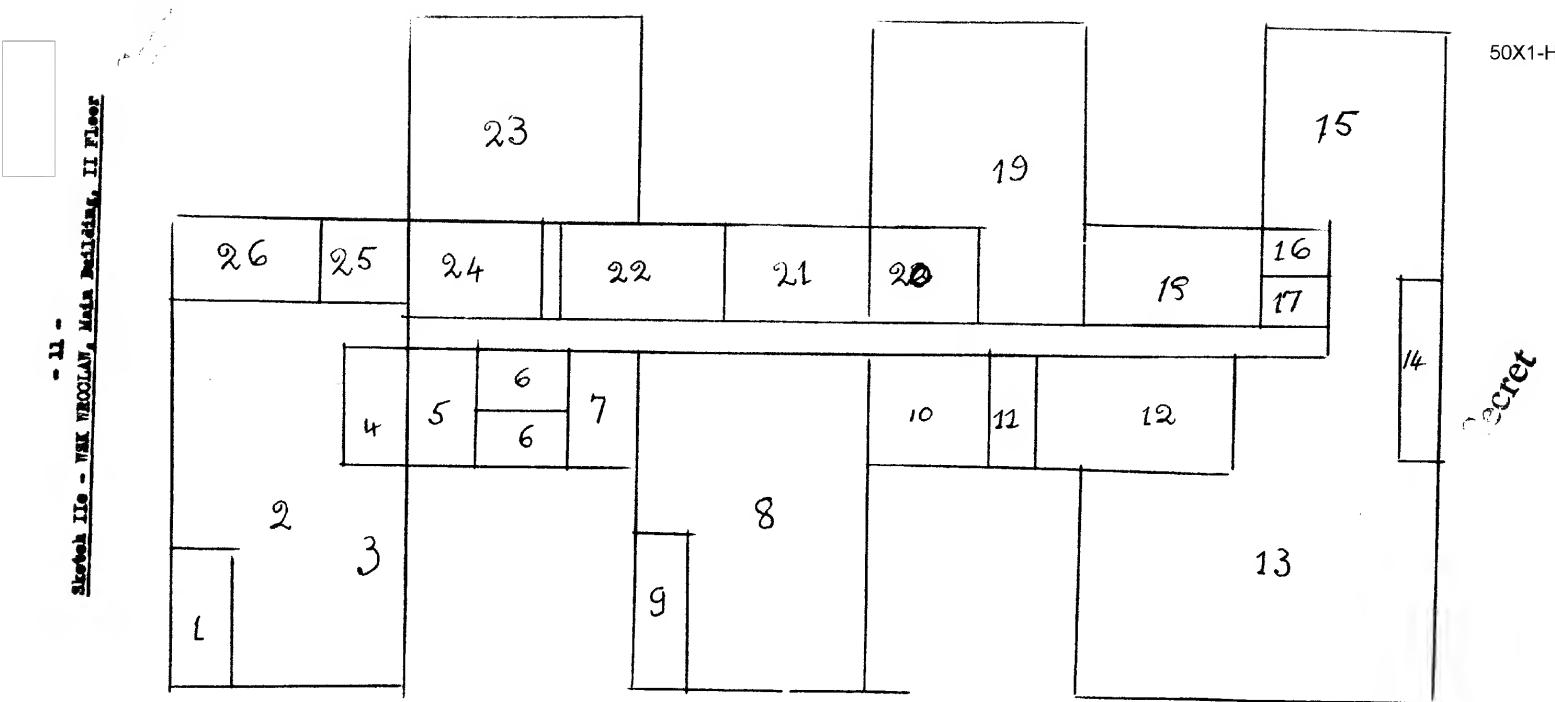
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12. Key to Sketch IIs - LSK WROCLAW, Main Building, II Floor

1. Components testing section
2. Final assembly pumps
3. Fittings
4. Technical control counter
5. Tool section for the assembly work
6. Personnel officer
7. Card indexes
8. Production hall, production of tools; lathes & grinding machines here.
9. Technical control, technical control norm section
10. Office of electrician in charge
11. Staircase
12. Tool room, tool section and equipment
13. Production hall for tool section. Milling machines, lathes & grinding machines.
14. Distribution point of the tool shop
15. Finishing work on equipment, machine working section (alumaria)
16. Skilled workers stands
17. Technical control
18. Offices of equipment tool section
19. Mechanical section - finishing work on individual components
20. Sectional office
21. Tool section distribution room
22. Technical construction section
23. Recovery section, for work on damaged parts. Only highly skilled technicians and engineers worked here.
24. Store of parts ready for assembly
25. Store room of finished products
26. Military technical control



13. Key to Sketch IIa - NSK WROCŁAW, Main Building, Top Floor

1. Production workshop
2. Office of head of section
3. Production workshop - section P.M. finishing work on parts
4. Technical control of P.M. Section
5. Distribution point for section T.R.R.
6. T.P.R. Section - machining of parts
7. Technical control
8. Instrument section for subsidiary production
9. Section distribution point
10. Machining of parts for the bicycle motors
11. Assembly of viscose pump
12. Designing section and office of head of the subsidiary production section
13. Head of T.P.R. section
14. Assembly of bicycle motors
15. Staircase
16. Technical control point.

SECRET - FOB NUGGAN, Main Building, Top Floor

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SECRET

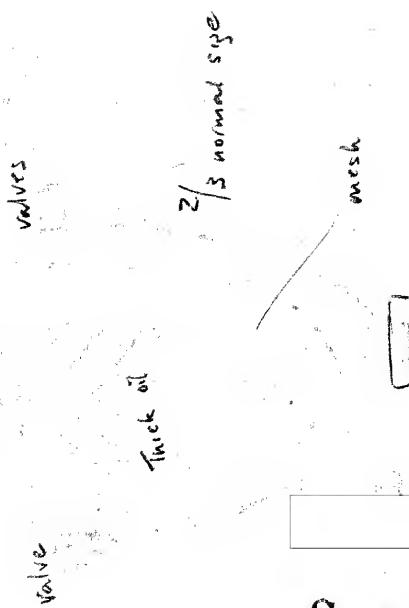
Sketch 5 - see para IV

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Forgings - 900 painted yellow
 - 600 painted green

50X1-HUM

Coloured Metal Forgings made
 for W.S.K. WROCLAW at
 SWIDNICK



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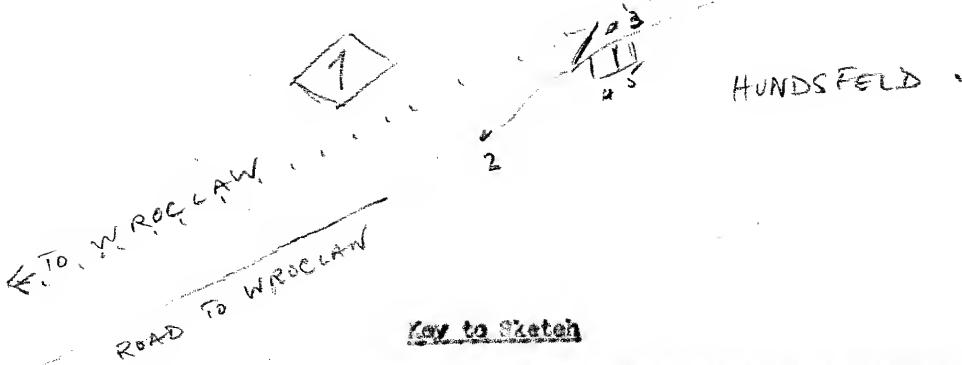
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REF ID: See Para 1

WROCLAW • 1518 VOL3

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MARIAN HOF



Key to Sketch

1. OSIEKA MARCHEWKALO - MARCHEWKALO Settlement
2. Rockers' Hotel - recently constructed
3. An area where there was a field of hops
4. MURAL, TOWER 2 - 8
5. B&B - WROCLAW

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